

Notice of Allowability

Application No.

10/799,025

Applicant(s)

KIM ET AL.

Examiner

Yvette C. Thornton

Art Unit

1752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 3/12/04.
2. ☒ The allowed claim(s) is/are 1-67.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

REASONS FOR ALLOWANCE

This is written in reference to application number 10/799025 filed on March 12, 2004 and published as US 2004/0170919 on September 2, 2004 and is a CIP of US 6,713,228.

Response to Amendment

1. Claims 1-67 are currently pending.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. The application has been amended as follows:

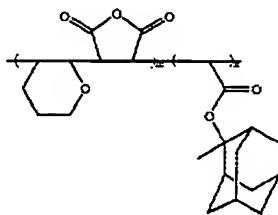
- In claim 7, line 2 change "fluoralkyls" to -fluoroalkyls--;
- In claim 14, line 2 change "fluoralkyls" to -fluoroalkyls--;
- In claim 20, line 2 change "fluoralkyls" to -fluoroalkyls--;
- In claim 27, line 2 change "fluoralkyls" to -fluoroalkyls--;
- In the abstract, line 13 after "(V)" insert ---.

Allowable Subject Matter

4. Claims 1-67 are allowed.
5. The following is an examiner's statement of reasons for allowance: review of the prior art failed to teach and/or suggest copolymers comprising repeating units of α -fluorinated acrylate and an alkenyl ether monomer as set forth in instant claims 1, 11, 17, 24, 30, 35 and 64. Independent claim 41 pertains to the method of making the said copolymers and claim 45 pertains to the composition thereof.

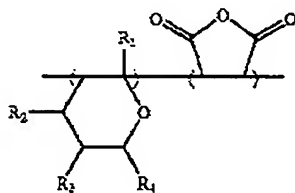
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The closest prior art of Choi et al. (US 6,517,990 B1) exemplifies a terpolymer of the following



structure:

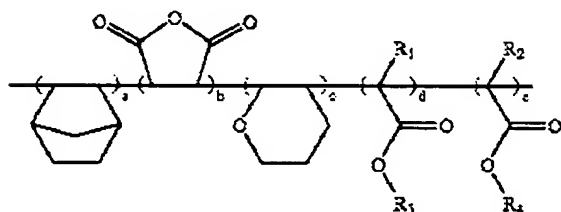
(see synthesis ex. 8). Kim et al. (US 6,787,287 B2) teaches a



polymer having the formula:

(abstract). Kim et al. (US 2003/0215758 A1)

teaches a photosensitive polymer having the formula:



(abstract). The said prior art references to Choi, Kim

and Kim fail to teach the tricyclic alkenyl ether monomer of the instant claims. The said prior art also fails to teach and/or suggest an α -fluorinated acrylate as set forth in the instant claims. One of ordinary skill in the art would not have been motivated nor would it have been obvious to modify the teachings of Choi, Kim or Kim to meet the limitations of the instant claims.

6. The claimed invention therefore, deemed allowable over the cited prior art.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

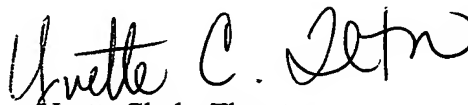
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- Holla et al. (US 5,380,659 A) pertaining to a process for a highly regioselective esterification and ester cleavage on unsaturated sugar compounds (see formula I; c. 2, l. 1-9).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvette C. Thornton whose telephone number is 571-272-1336. The examiner can normally be reached on Monday-Thursday 8-6:30.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Yvette Clarke Thornton
Primary Examiner
Art Unit 1752

yct
May 17, 2005